

ABSTRACT

A cutting auger for example for ice has a main auger blade and a front subsidiary coaxial blade each having a drive core and a helical auger flight carried on the drive core for rotation about a longitudinal axis of the drive core with a cutting edge at an axial end face of the auger flight such that when rotated the cutting edge cuts a hole equal in diameter to the helical flight and the helical flight carries the cut material away from the cutting edge. The second auger blade having a smaller diameter than the first and is shorter than the first and is arranged with the helical turns thereof in opposed angular direction. A planetary drive system is arranged to rotate the first and second cutting augers in opposed direction with the first driven at a slower angular velocity than the second so as to balance the torque.